THE SINGING MACHINE®

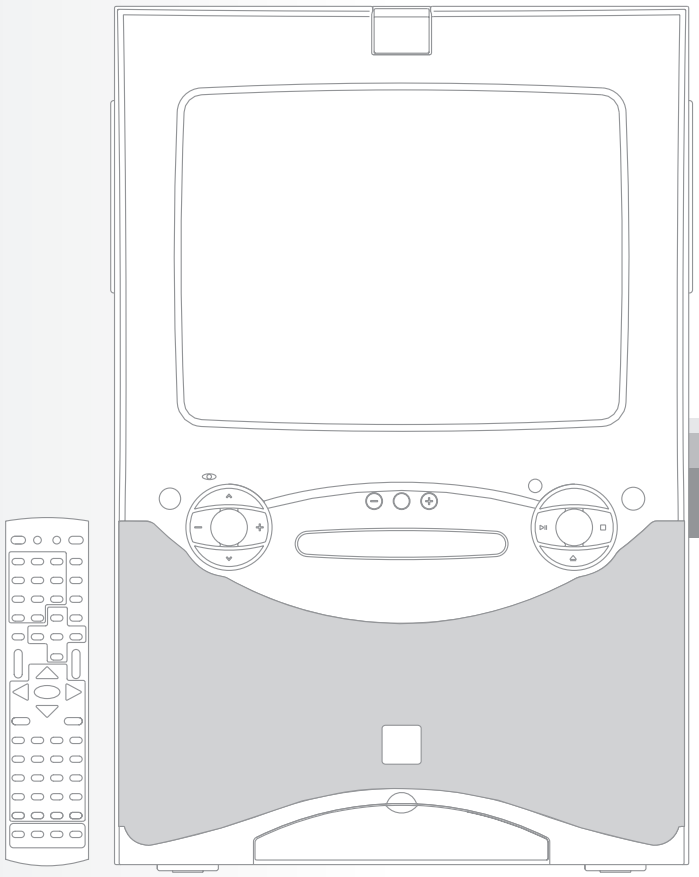
Instruction Manual

THE LEADER IN HOME KARAOKE AND BEYOND™

STVD-919

Please read before using this unit.

- **DVD / CD+GRAPHICS WITH BUILT-IN 13.5” COLOR TV AND VIDEO CAMERA KARAOKE SYSTEM**



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ENGLISH

WARNINGS

WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

The CAUTION marking is located on the rear panel.

This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

CAUTION

TO PREVENT ELECTRONIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE PLUG CAN BE FULLY INSERTED WITHOUT EXPOSING ANY PARTS OF THE BLADES.

WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

The apparatus shall not be exposed to dripping or slashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

This DVD/CD+G player is made and tested to meet safety standards of the FCC, requirements and compliance with safety performance of the U.S. Department of Health and Human Services, and also with FDA Radiation Performance Standards 21 CFR Subchapter J.

Warnings:

- This DVD/CD+G player employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
- The use of controls, adjustments, or procedures other than those specified herein might result in hazardous radiation exposure.
- The apparatus shall be used in an open area.

CAUTION

This DVD/CD+G player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear panel.

CAUTION!

Invisible laser radiation when open and interlocks are defeated. Avoid exposure to beam.

IMPORTANT

Since CD circuitry may cause interference to other radio tuners nearby, switch this unit off when not in use or move it away from the affected radio tuner.

This class[B] digital apparatus complies with Canadian ICES-003.

WARNING

NOTE: This digital apparatus does not exceed the Class B limits for radio noise emissions from the digital apparatus as set out in the Radio Interference Regulations of Industry in Canada. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television (which can be determined by turning the equipment off), the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

AUTOMATIC DEGAUSSING

All color television receivers are sensitive to magnetic influences, usually caused by either moving the receiver from one place to another or using certain electrical appliances near the receiver. The residual magnetism as it is called, sometimes causes distortion which gives rise to “blotchy” areas of color in the picture. To avoid these effects the receiver incorporates an automatic degaussing circuit which operates for a short while immediately each time the receiver is switched on using the main switch. This circuit removes any residual magnetism in the metal parts of the picture tube and therefore ensures that each time the receiver is switched on. If the set is moved or faced in a different direction, the main switch must be switched off for at least 10 minutes in order for the automatic degaussing circuit to operate properly.

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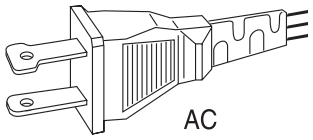
IMPORTANT SAFETY INSTRUCTIONS

1. **Read these instructions.**
2. **Keep these instructions.**
3. **Heed all warning.**
4. **Follow Instructions.**
5. **Do not use this apparatus near water.**
6. **Clean only with a dry cloth.**
7. **Do not block any of the ventilation openings.**
   Install in accordance with manufacturer's instructions.
8. **Do not install near any heat source** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. **Do not defeat the safety purpose** of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



AC
Polarized Plug

10. **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. **Only use attachments/accessories** specified by the manufacturer.
12. **Use only with a cart**, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tipover.

13. **Unplug this apparatus** during lightning storms or when unused for long periods of time.
14. **Refer all servicing** to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as if the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or when the apparatus has been

Class II equipment symbol ⧈
This symbol indicates that the unit has a double insulation system.

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FEATURES

KaraokeVision™
Lift up camera lens to display your image on The Singing Machine's monitor and/or another video component.

13.5" Color TV
Built-in color monitor provides television and/or on-screen lyrics.

Dolby Digital Sound
This player can handle Dolby Digital surround sound having 5.1 channels when connected to a Dolby Digital Decoder.

Still/Fast/Slow/Step Playback
Various playback modes are available including still pictures, fast forward/reverse, slow motion and step frames.

Programmable Playback for DVD and Audio CD
You can program the tracks to play them in any desired order.

DVD Menu in a Desired Language
You can display DVD menus in a desired language, if available on a DVD.

Screen Saver
The screen saver program starts when there is no input from the player for 5 minutes in the stop mode.

Subtitles in a Desired Language
You can select a desired language for the display subtitles, if that language is available on a disc.

Selecting DVD Viewing Angle
You can select the desired DVD viewing angle, if a disc contains sequences recorded from different angles.

Choices for Audio Language and Sound Mode
You can select the desired audio language and sound mode, if different languages and modes are available on a disc.

Parental Lock
You can set the control level to limit playback of discs which may not be suitable for children.

Automatic Detection of Discs
This player automatically detects if a loaded disc is DVD, CDG, audio CD, MP3 or image disc.

Playing an MP3 and JPG image Disc
You can enjoy MP3 and JPG image discs which are recorded on CD-R/RW or DVD±R/±RW.

On-Screen Display
Information about the current operation can be displayed on the screen, allowing you to confirm the currently active functions (such as program playback), on the screen using the remote control.

Direct Search
You can search the desired title, chapter, or track with numeric button during playback or in stop mode.

Search
Chapter search: Search for the chapter designated by user is possible.
Title search: Search for the title designated by user is possible.
Track search: Search for the track designated by user is possible.
Time search: Search for the time designated by user is possible.

Repeat
Chapter: Repeated playback of the chapter of the disc being played is possible.
Title: Repeated playback of the title of the disc being played is possible.
Track: Repeated playback of the track of the disc being played is possible.
Disc: Repeated playback of the entire disc being played is possible.
A-B: The part between A and B designated by user is possible.

Zoom
2-times, 3-times, and 4-times magnified screen can be displayed.

DRC (Dynamic Range Control)
You can control the dynamic range of sound volume.

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NOTES ON DISCS

PLAYABLE DISCS

This DVD Player compatible with the following discs.

Disc Types (Logos)	Recording Types	Characteristics
DVD	AUDIO + VIDEO	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. • Various screen and audio functions can be easily selected through the on-screen menu.
CDG	AUDIO + SIMPLE GRAPHICS	• Compact Disc + Graphics is a regular audio CD with information stored on a data track simultaneous to music. In the case of karaoke, the graphics are used to store song lyrics and display in synch with music.
AUDIO-CD	AUDIO	• An LP is recorded as an analog signal with distortion. CD is recorded as a digital signal with better audio quality, less distortion and less deterioration of audio quality over time.
CD-R / CD-RW / DVD±R / DVD±RW	AUDIO IMAGE	• MP3 (MPEG-1 audio layer 3) is recoreded in digital signal which provides one of the best sound quality levels with the smallest file size (lower bitrate). • JPG (JPEG - Joint Photographic Experts Group) is an image format which provides one of the best image qualities with the smallest file size. It is a standard image format on the web.

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NOTES ON DISCS

PLAYABLE DISCS

This Singing Machine conforms to the NTSC color system and is designed only for the playback of discs with Region Code 1, or for the discs that do not contain Region Code information. If there is any other Region Code encoded on a disc, the disc will not play and the message “WRONG REGION” will appear on the screen.

- Some discs include region codes as shown below.

- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on DVD players with the same region code.

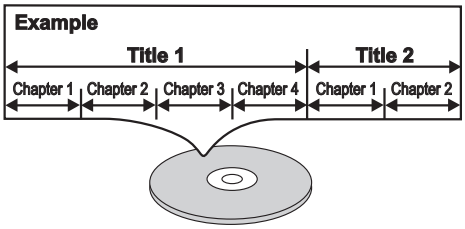
The following discs cannot be played back on this DVD player.

- DVD with region codes other than 1 or ALL.
- DVD-ROM
- DVD-RAM (Never play back, otherwise malfunction may result.)
- VSD
- CDV (Only plays back the audio part.)
- CD-I (Never play back, otherwise malfunction may result.)
- SACD

DISC TYPES

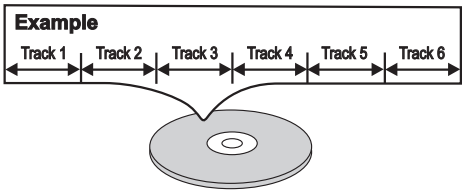
DVD

Data on a DVD is divided into sections called "titles", and then into subsections called "chapters", each of which is given a title or chapter number. Playback conditions are preset on some DVD video discs. These playback conditions take priority over user operation on this player. If a function you select does not run as desired, refer to the manual accompanying the disc.



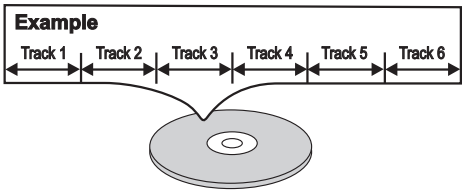
CDG

Data on a CDG is divided into sections called “tracks”, each of which is given a track number.



AUDIO CD

Data on an AUDIO CD is similar to CDG.



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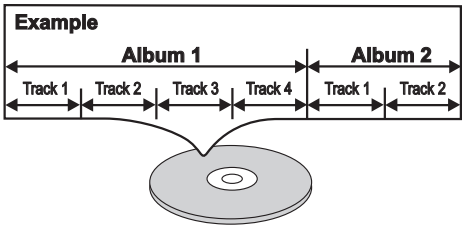
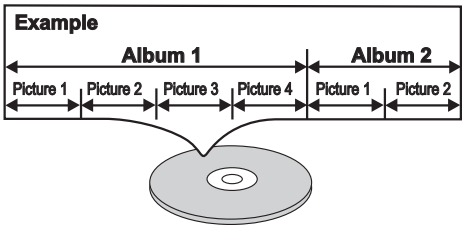
NOTES ON DISCS

DISC TYPES

CD-R / CD-RW / DVD ± R / DVD ± RW
MP3
Data on a MP3 is divided into sections called "albums", and then into subsections called "tracks", each of which is given an album or track number. When you make MP3 data, you refer to the manual accompanying the disc.



JPG IMAGE CD
Images stored in digital format and are able to record on a different media such as a CD-R, CD-RW, DVD ± R, DVD ± RW etc.



COMPATIBILITY INFORMATION
- The CD-R or CD-RW must be ISO 9660 level 1 compatible.
- Files should be MPEG1 Audio Layer 3 format, 32 kHz, 44.1 kHz (recommended) or 48 kHz, 32 kbps - 320 kbps (128 kbps recommended). Incompatible files will not play.
- This system only plays tracks that are named with the file extension ".mp3" or ".MP3" and ".jpg" or ".JPG".
- The disc is finalized in order prior to play.

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INTRODUCTION

ENGLISH

Your DVD / Compact Disc+Graphics with a built-in 13.5" color TV and Video Camera Karaoke System will provide you with fun and entertainment. This system will allow you to be the "star" as you sing along with your favorite recordings and hear your voice with the music through the system's speakers.

Before you attempt to use your unit, please read this manual thoroughly to familiarize yourself with all the features available and the sections of the manual that describe their operation. Next, go to the section for the specific operation you wish to perform.

For your easy reference, listed here are some of the main features of this karaoke system:

Lyrics on Screen - displays the lyrics with the tempo of music when playing CD+G discs.

Auto Voice Control (A.V.C.) - lets you replace the original singer's voice with your own voice when any prerecorded, multiplex karaoke disc is played. To activate, just switch on the Auto Voice Control and tune Mic Volume to a comfortable listening level.

Balance Control - lets you adjust the balance between the prerecorded original singer's voice and the music if you use a multiplex karaoke disc.

Echo Control - lets you add an echo to enrich your voice for a concert hall effect.

Master Volume Control - adjust the master volume up and down buttons until desired volume level is obtained.

KaraokeVision™ - camera lens allows you to display your image on the Singing Machine's monitor or another video component.

Built-In Speakers - allows you to share the music with your family and/or friends.

Individual DVD and Camera output jacks - connect another video components to share movies and singing performances through the camera.

Auxiliary Output Jacks - connect another audio output component, such as an equalizer or a PA system.

Headphone Jack - connect headphones to your system instead of using the built-in speakers.

Guitar or Keyboard Jack - Guitar or Keyboard can be connected to this unit by using guitar or keyboard jack. The volume of guitar or keyboard coming from the unit can be adjusted by turning the guitar or keyboard's volume control.

Symbols Used in this Manual
The below symbols appear in some headings and notes with the following meanings:

TV	- Description refers to operation of TV
AV	- Description refers to operation of AV
DVD	- Description refers to playback of DVD-video discs
CDG	- Description refers to playback of CD+Graphics discs
CD	- Description refers to playback of Compact Discs

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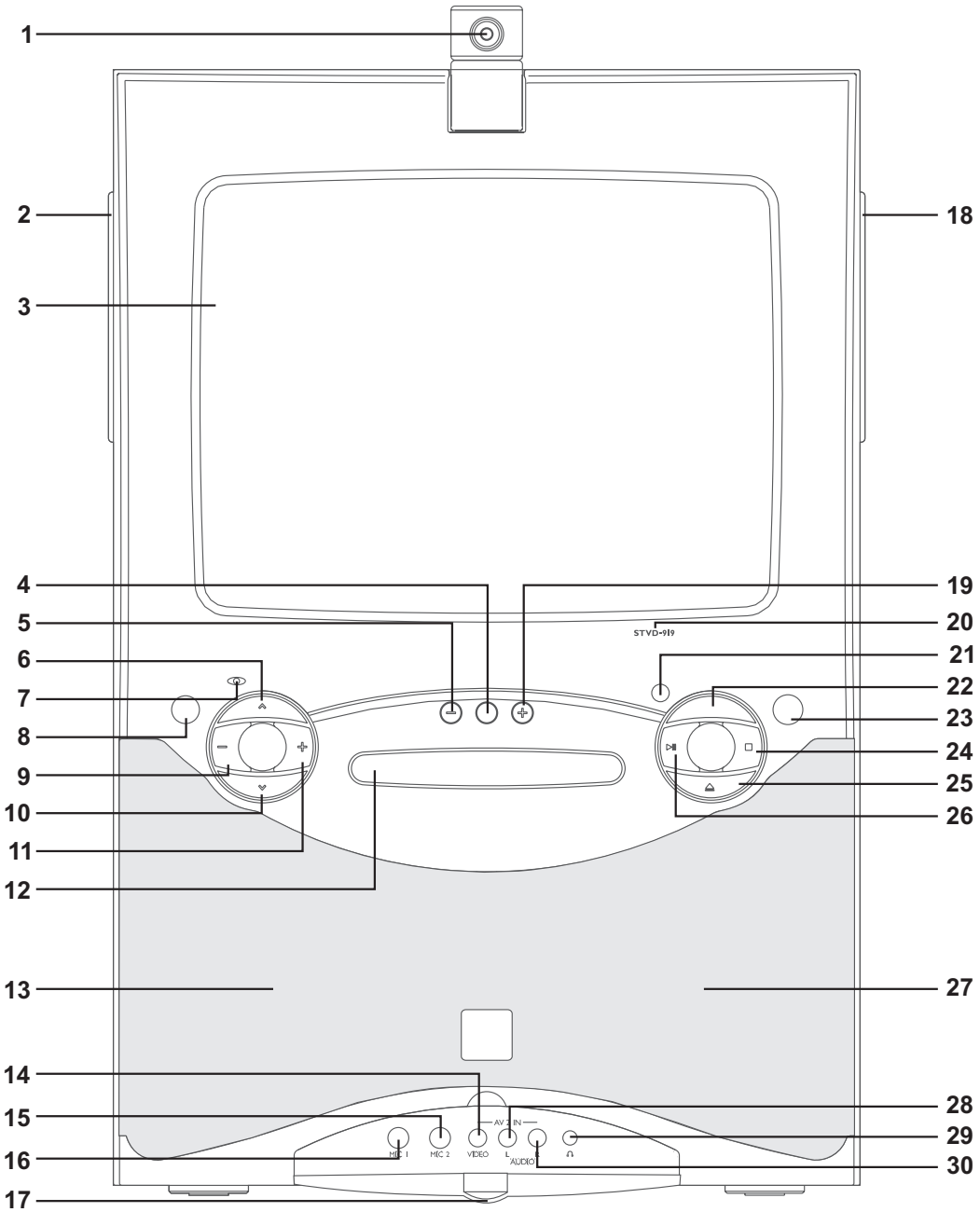
CONTROL LOCATIONS



FRONT VIEW

1. Adjustable Camera Lens
2. Handle
3. Monitor
4. Karaoke Function button
5. Karaoke Function “-” button
6. CHANNEL UP button
7. POWER LED
8. POWER button
9. Volume DOWN button
10. CHANNEL DOWN button
11. Volume UP button
12. DVD Door
13. Loudspeaker
14. VIDEO IN 2 Jack
15. MIC 2 Jack
16. MIC 1 Jack
17. Jacks Door
18. Handle
19. Karaoke Function “+” button
20. Model Number
21. Remote Sensor
22. Function Selector (TV/AV/DVD)
23. MENU button
24. STOP button
25. OPEN/CLOSE button
26. PLAY/PAUSE button
27. Loudspeaker
28. AUDIO IN 2 (L) Jack
29. Headphone Jack
30. AUDIO IN 2 (R) Jack

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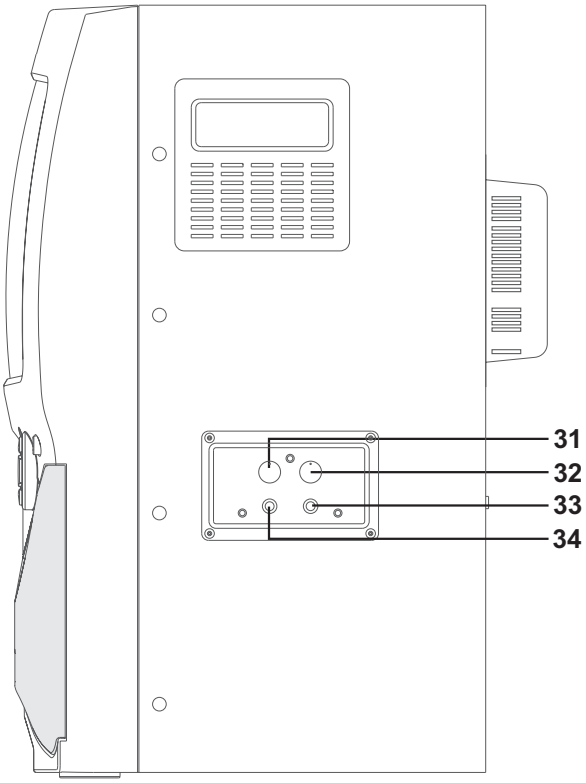
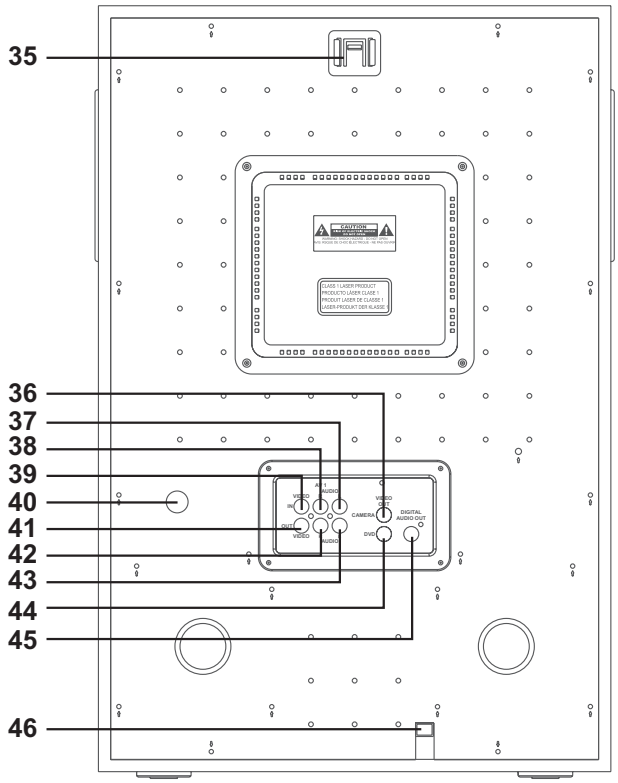
CONTROL LOCATIONS



SIDE VIEW
31. KEYBOARD VOLUME control
32. GUITAR VOLUME control
33. GUITAR Jack
34. KEYBOARD Jack



REAR VIEW
35. Antenna adaptor
36. CAMERA VIDEO OUT Jack
37. AUDIO IN 1 (L) Jack
38. AUDIO IN 1 (R) Jack
39. VIDEO IN 1 Jack
40. Antenna Jack
41. VIDEO OUT Jack
42. AUDIO OUT (R) Jack
43. AUDIO OUT (L) Jack
44. DVD VIDEO OUT Jack
45. DIGITAL AUDIO OUT Jack
46. AC POWER CORD

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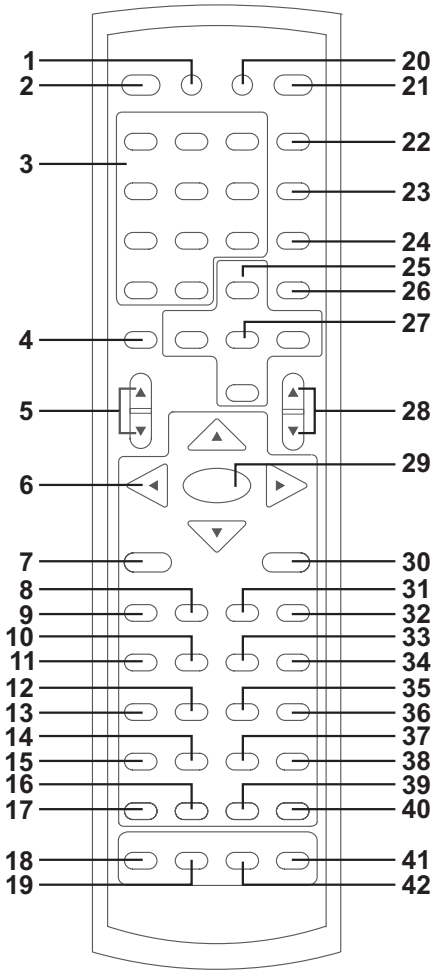
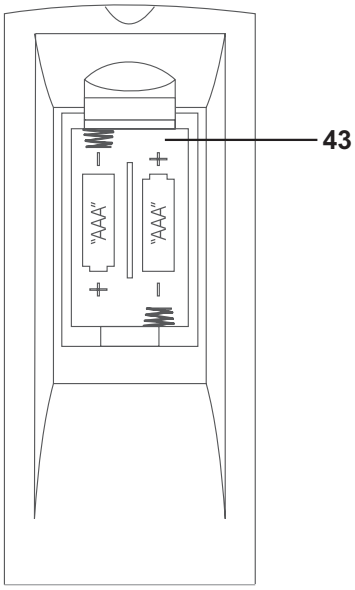
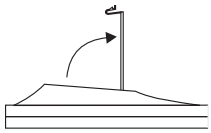
REMOTE CONTROL







BATTERY INSERTION
Remove the battery compartment cover. Then insert 2 pieces “AAA” or “R03” batteries as illustrated and replace the battery compartment cover.

REMOTE CONTROL

1. TV/AV1/AV2 button.
2. ⏻ / ON button
3. Number buttons (0-9, -/--)
4. CAMERA button
5. CHANNEL UP/DOWN buttons
6. CURSOR buttons
7. DVD MENU button (PBC button)
8. STEP button
9. PLAY/PAUSE button
10. ZOOM button
11. STOP button
12. SUBTITLE button
13. REPEAT button
14. SETUP button
15. SEARCH button
16. PROGRAM button
17. CLEAR button
18. Auto Voice Control button
19. Karaoke Function “-” button
20. TV/DVD button
21. OPEN/CLOSE button
22. SLEEP button
23. CALL button
24. MUTE button
25. MENU CURSOR buttons
26. Personal Preference (PP) button
27. MENU button
28. Volume UP/DN buttons
29. ENTER button
30. Number button (+10)
31. SCAN ◀◀ button
32. SCAN ▶▶ button
33. PREVIOUS (PREV) button ⏮
34. NEXT button ⏭
35. A-B button
36. ANGLE button
37. MARK button
38. AUDIO button
39. SLOW button
40. DISPLAY button
41. Karaoke Function “+” button
42. Karaoke Function button
43. Battery Compartment

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CONNECTIONS

CONNECTING POWER
You can power the system from a standard AC outlet by using the supplied power cord.

CAUTION: The supplied AC power cord has a polarized plug that fits into the wall outlet only one way. If the plug does not fit properly, turn it over and try again. Do not force it.

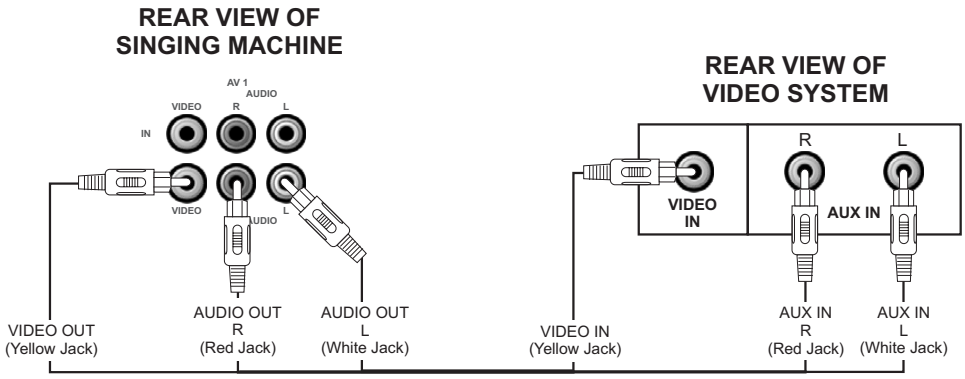
CONNECTING TO YOUR HEADPHONE
A headphone jack is provided for using headphones instead of the built-in speakers. (Headphones are sold separately.)

CONNECT YOUR GUITAR AND KEYBOARD
1. Connect the guitar or keyboard to guitar input jack or keyboard input jack.
2. Press the POWER button to turn the unit on.
3. The sensitivity and loudness could be adjusted as required by turning the guitar or keyboard volume control and/or the master volume control.

PRIOR TO CONNECTING
- Always turn off the Singing Machine, TV and other components before connecting or disconnecting any cables.
- Please refer to the instructions below along with the instruction manual for the other component if connection problems occur or more information is needed.

CONNECTING TO A VIDEO SYSTEM

CONNECTING A VIDEO COMPONENT FOR OUTPUT
Please follow the steps below to share your Singing Machine display on another video system:
(1) Locate the multicolor RCA patch cords.
(2) Connect yellow video cable to the Video Output jack, red audio cable to the Audio Right channel Output jack and white audio cable to the Audio Left channel Output jack respectively on the back of the Singing Machine.
(3) Connect the other end of the cords to the Video Input jack, AUX Right/Left channel Input jacks on your video system relatively.



NOTE: To display only the image on another video system, disconnect the Audio/AUX Right and Left channel (Red and White) Output RCA cables. The audio signal will originate from the built-in speakers on the unit.

Please use the provided CDG disc to test the connections. The lyrics and music of songs on the disc will be displayed on the Singing Machine.

COMMON WAYS TO CONFIGURE YOUR TV OR VCR
If you have never used the video input RCA jack or coaxial cable on your TV/VCR you should consult your TV/VCR user guide. If you don't have your manual, please contact your TV/VCR manufacturer for information either by phone or by viewing their website for online assistance. They will be able to tell you very quickly how to configure your TV or VCR to display the video connection.

The three most common ways to set up the TV/VCR are:
1) A 'Video' button may be on the TV/VCR or on the remote control. Pressing 'Video' may display the input from your Singing Machine.
2) Try looking for a 'Video' channel between the regular channels on your TV/VCR. Do this by setting the channel on the TV/VCR to channel 2 then pressing the 'Down' channel button to see if there is a 'Video In' or 'Line In' between the lowest channel and the highest channel on your system.
3) The configuration may also be located in the set-up menu on the TV/VCR. Look for a section on 'Input Selection' where you might be able to choose the input source i.e.'Cable/Ant.', 'Video 1', 'Line In' or 'Video In'.

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CONNECTIONS

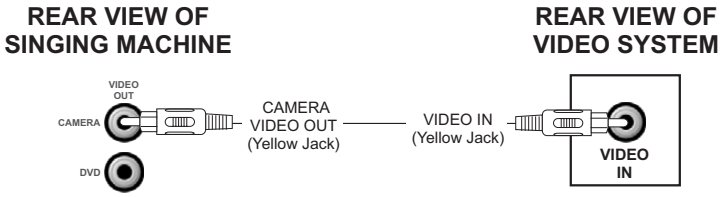
CONNECTING TO A VIDEO SYSTEM

CONNECTING A VIDEO COMPONENT FOR INDEPENDENT DVD VIDEO OR FOR INDEPENDENT CAMERA VIDEO OUTPUT

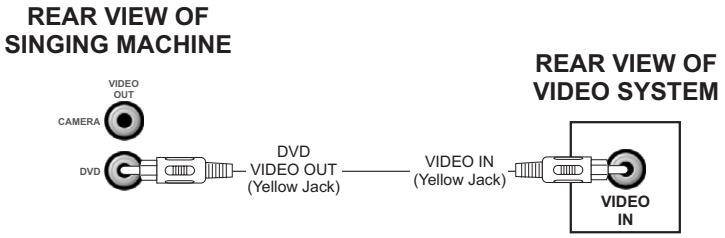
There are 2 separate Video Output jacks for Camera and DVD.

(1) Locate the multicolored RCA patch cords.
(2) Connect yellow video cable to your desired Video Output (CAMERA/DVD) jack on the back of the Singing Machine.
(3) Connect the other end of the cords to the Video Input jack on your video system.
(4) Press the Function Selector (TV/AV/DVD) to DVD. (In order to display the camera output, the camera must need to lift up and camera cap has to be removed.)

FOR INDEPENDENT CAMERA VIDEO OUPUT



FOR INDEPENDENT DVD VIDEO OUTPUT



* Note: It is possible to connect one video system for auxiliary video output with lyrics and connect another video system for camera real-time display.

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CONNECTIONS

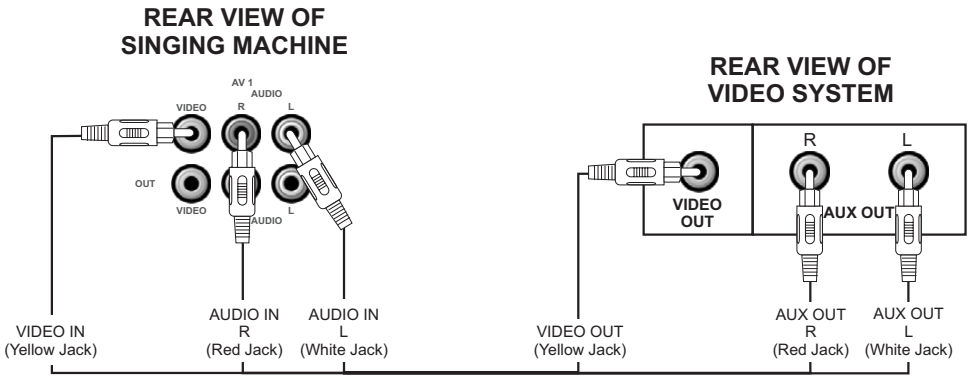
CONNECTING TO A VIDEO SYSTEM

CONNECTING A VIDEO COMPONENT FOR INPUT

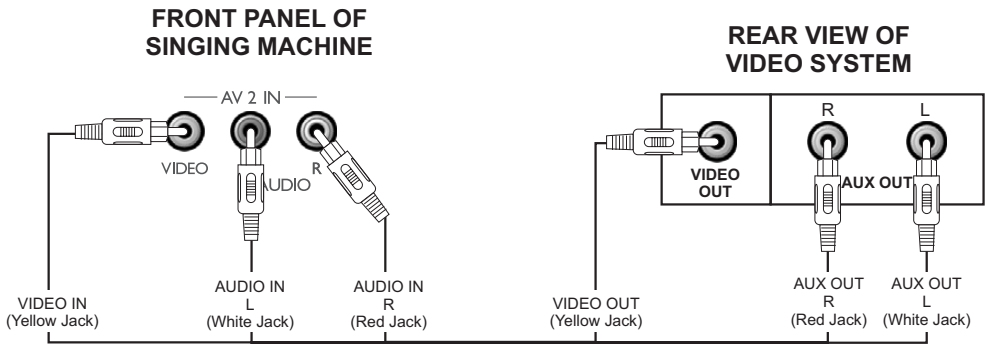
There are 2 individual group input jacks (AV1 and AV2) to connect another video component for input. Please follow the steps below to share the display on the Singing Machine's monitor from the video source:

(1) Locate the multicolored RCA patch cords.
(2) Connect the yellow video cable to the Video Input Jack, red audio cable to the Audio Right channel Input jack and white audio cable to the Audio Left channel Input Jack respectively located on the front of your system when the jack door is opened (Please refer to page E9 Control Location # 17). The other option is to connect the respective cables to the back of your Singing Machine as illustrated below.
(3) Connect the other end of the cords to the Video Output Jack, AUX Right/Left channel Output jacks on your video system, as illustrated below.
(4) Press the Function Selector (TV/AV/DVD) to switch to AV2 for front panel input connection or switch to AV1 for the back of the Singing Machine input connection.

FOR AV1



FOR AV2



* Note: In order to input the audio source, the video connection **must** be connected. If the video connection is not completed, there will be no audio output.

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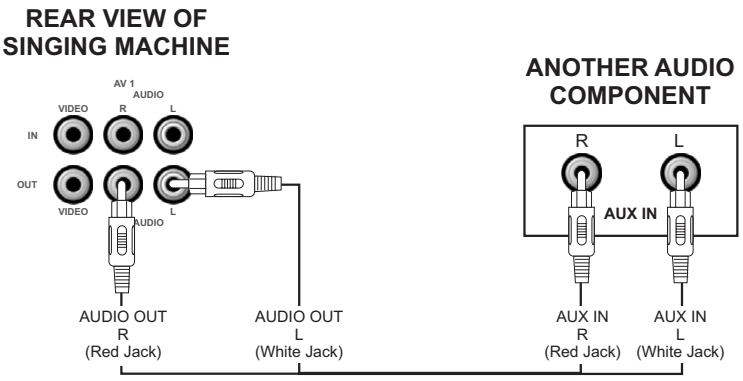
ENGLISH

CONNECTIONS

CONNECTING TO AN AUDIO SYSTEM

CONNECTING AN AUDIO COMPONENT FOR OUTPUT

Connect the Singing Machine to your home stereo system using the White and Red supplied RCA cords. Plug the white end of the RCA cord into the white Audio Output jack on the Singing Machine. Plug the red RCA cord into the red Audio output jack on the Singing Machine. Now connect the other end of the cable's white (left channel) and red (right channel) plugs to your home stereo's AUX Input jacks as illustrated below.

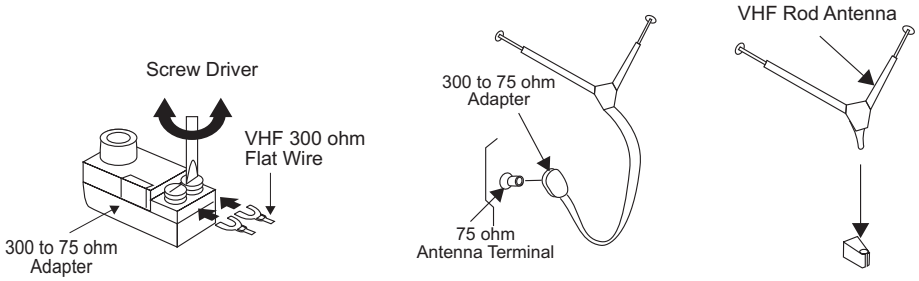


CONNECTING AN AMPLIFIER AND DOLBY DIGITAL AUDIO DECODER FOR OUTPUT

As some users may want to use their own Dolby Digital Audio Decoder for supreme audio output. The Singing Machine provides a Digital Audio Output Jack located at the rear panel of the unit. Connect one end of the coaxial cable to the Digital Audio Output Jack on the Singing Machine, connect the other end to the input jack of the Digital Audio Decoder. You can now enjoy a supreme sound effect from the amplifier.

ANTENNA CONNECTION

1. Connect an indoor or outdoor antenna to the antenna jack at the rear panel.
2. External antenna adaptor.



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BASIC OPERATION

BASIC SETUP

The MENU button on the front of the Singing Machine or on the remote control can be accessed to change functions on this unit. The menu is divided into three main categories: PICTURE, PRESET and SETUP.

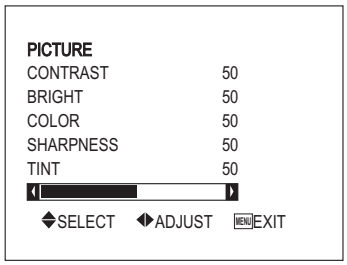
PICTURE → PRESET → SETUP

Note:
- After pressing MENU button on the front of the Singing Machine, the CHANNEL UP/DOWN buttons and Volume UP/DOWN buttons can act as MENU CURSOR buttons.

PICTURE

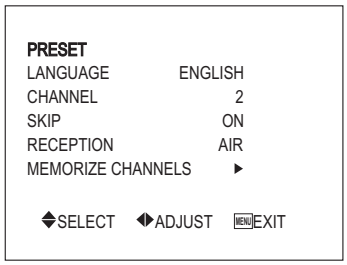
TV AV DVD

The CONTRAST, BRIGHTNESS, COLOR, SHARPNESS AND TINT of the display can be selected and changed by pressing the MENU CURSOR buttons. The levels can be set from 0-99.



Note:
- The default system picture is all in level 50.

PRESET



LANGUAGE

TV AV DVD

The language menu can be changed by pressing the MENU CURSOR buttons. There are 3 languages to choose from.

ENGLISH → SPANISH → FRENCH

CHANNEL

TV

Select a channel to set for your preference.

SKIP

TV

If a double image/interference appears on a preset channel it can be removed from the listing by accessing the SKIP Mode displayed on the PRESET menu.

RECEPTION

TV

TV reception method can be chosen from AIR or from CATV (Community Antenna Television).

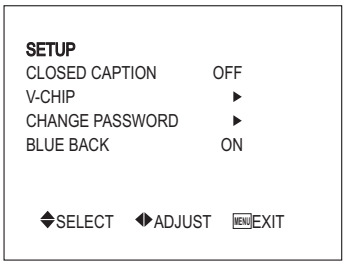
MEMORIZE CHANNELS

TV

Channels can be searched automatically and saved into the Singing Machine's memory.

Note:
- CHANNEL, SKIP, RECEPTION AND MEMORIZED CHANNELS are accessible in the TV function mode only.

SETUP



CLOSED CAPTION

TV AV DVD

Closed caption are words that can be displayed on your Singing Machine in DVD mode to assist the hearing impaired. There are several choices available as long as the DVD includes recorded captions.

OFF → C1 → C2 → C MUTE → TEXT 2 → TEXT 1 →

C1 and C2 = CAPTIONS: Usually follows the action on screen, providing a written version of the dialog, narration and sound effects.

TEXT 1 and TEXT 2: It is not usually related to action on screen, often providing information such as news or weather.

V-CHIP

TV AV DVD

This helps parents to set the standard for the programs their children are going to watch. It needs a password to enter the parental control menu. The default password is set at "**1111**" when the unit is shipped.
In the parental control menu, the desired Movie/TV rating can be selected.

Note:
- The TV guidelines set the standard for TV programs excluding sports and news.
- The Movie Ratings set the standard for movie, video and other media excluding TV programs.

CHANGE THE PASSWORD

TV AV DVD

The password can be changed on your Singing Machine by using the MENU CURSOR buttons. Select CHANGE PASSWORD and use the numbered buttons (0-9). First enter the old password to confirm authorization. Once confirmation has been completed the new password has to entered twice to confirm. A confirmation display will appear on your Singing Machine.

BLUE BACK

TV AV DVD

Blue background can be switched ON/OFF for TV/AV function mode when there is no input signal.

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BASIC OPERATION

BASIC FUNCTIONS

There are several functions that operate at all function modes. They are the basic operations of the Singing Machine.

TURNING POWER ON/OFF

To turn on the karaoke system, press the POWER button, the POWER LED will light up. To turn off the system, press the POWER button again,the POWER LED will turn off.
Press the STANDBY/ON button on the remote control once to switch off the Singing Machine during operation. Press it again and it will allow the unit to operate.

TV / AV SWITCHING

In order to display video/audio from another source onto your Singing Machine the function on your Singing Machine must be accessed by pressing the TV/AV1/AV2 button on your remote control as illustrated below:

TV → AV1 → AV2

TV / DVD SWITCHING

In order to use your Singing Machine as a Disc Player, function has to be switched by the TV/DVD button on the remote control.

TV → DVD

TV / AV / DVD SWITCHING

Function modes can also be switched by pressing the TV/AV/DVD button on the front of the Singing Machine.

TV → AV1 → AV2 → DVD

VOLUME CONTROL

Pressing VOL+ or VOL− buttons on the front of your Singing Machine or the VOLUME ▲▼ on the remote control will adjust the system's audio output.

SLEEP TIME SETTING

Pressing the SLEEP button on the remote control to select a predetermined playing time. After this time interval, the Singing Machine will turn off. The sleep time can be set to count down from 5 to 120 minutes, by 5-minute intervals.

CALL FUNCTION MODE

Press the CALL button on the remote control to display current function mode and channel information on the screen. Muting status and Sleep timer will be displayed if they are set.

MUTING

Pressing the MUTE button on the remote control mutes the audio output of the Singing Machine. Pressing the mute button again will restore the sound.

PERSONAL PREFERENCE (PP) PICTURE EFFECT

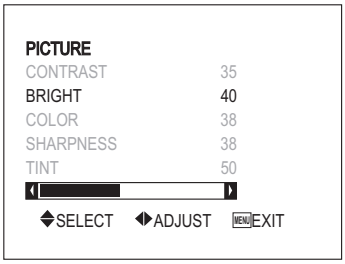
There are several picture effects preset on your Singing Machine. Press the PP button on the remote control to select a preferred picture effect.

PERSONAL → SOFT → STANDARD → VIVID

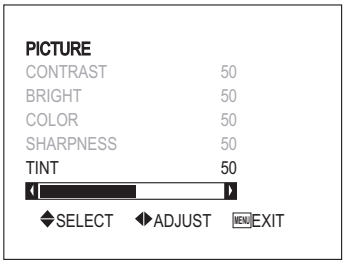
PERSONAL EFFECT

There is currently a preset picture setting on the menu. Any setting selected will automatically be saved to the personal effect on the system.

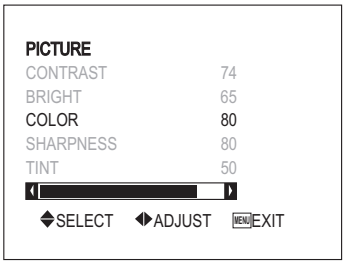
SOFT EFFECT



STANDARD EFFECT



VIVID EFFECT



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TV FUNCTION

ENGLISH

Prior to power your Singing Machine on, connect your TV aerial Antenna Jack (75 ohm) located on the back of the unit.
Press the POWER button, the power LED indicator will illuminate. After a few seconds the screen will display a picture along with the audio. The Singing Machine requires tuning to select an available TV station in your area.

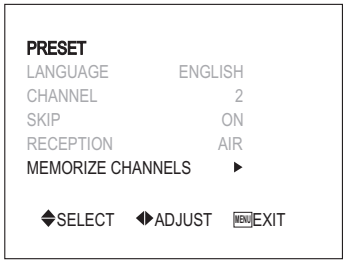
PRE-SETTING THE TV STATIONS ONTO THE SINGING MACHINE MEMORY

Note: - Preset tuning can only be completed in TV function.
- If the Singing Machine is not in the TV function mode, press the Function selector button on the front of the system or press TV/AV1/AV2 or TV/DVD on the remote control to switch to TV mode.

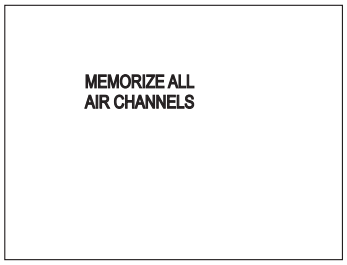
MEMORIZE CHANNELS

TV channels can be searched automatically. There are up to 181 channels that can be set.

1. During MENU > PRESET menu, press the MENU CURSOR buttons to select the MEMORIZE CHANNELS.



2. Press the MENU CURSOR, select the right direction button to start the automatic scanning process. The scanning will begin from VHF through to UHF. The TV stations will automatically store onto the memory of the system.



3. When scanning is completed, the system will tune itself to the lowest channel.
4. When ending the auto search, press the MENU CURSOR down button.
5. To exit the menu press the MENU button.

BASIC OPERATION OF TV

CHANNEL SELECT

Channel can be selected by pressing the CH ⩓ / ⩔ buttons on the system or CHANNEL ▲ / ▼ buttons on the remote control.
Specific channel selection can be achieved by pressing the Number buttons (0-9, -/--) on the remote control.

Note:
- -/-- button will only work in TV function mode.

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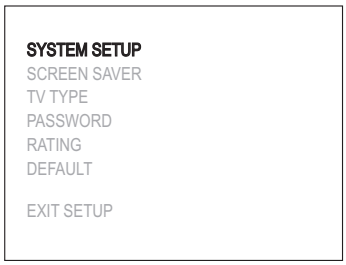
DISC FUNCTION SETUP

The SETUP button, CURSOR buttons and ENTER button on the remote control will allow different function settings while in Disc function. The menu is divided into four main categories: SYSTEM SETUP, LANGUAGE SETUP, VIDEO SETUP and DIGITAL SETUP.

Once the SETUP button is selected, the system's screen will display four setup categories, as illustrated below:

SYSTEM SETUP



SCREEN SAVER
While the Singing Machine is in disc function and has been in idle for five minutes, the screen saver will appear to protect the screen. It can be switched ON/OFF in this menu.

TV TYPE
The aspect ratio of the display in disc function can be changed by selecting one of the following options.

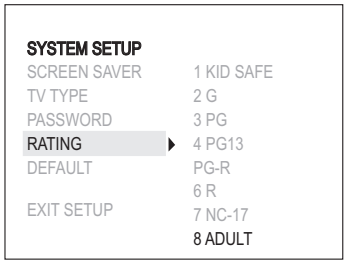
NORMAL/ 4:3PS
If both Singing Machine and DVD disc do not support wide screen viewing, a wide picture is displayed on the whole screen with a portion automatically cut off.

NORMAL/ 4:3LB
If the DVD supports wide screen, wide black bands will be displayed on the upper and lower portions of the Singing Machine screen.

WIDE / 16:9
For a wide screen TV set, choose this setting. (The wide screen TV will set to "FULL size".)

PASSWORD
The password is locked by the default setting, therefore a rating limit or password change cannot be accomplished. In order for the Rating feature to work in the DVD function the password mode must be turned on. If you want to set the ratings limit, you will need to enter the default password, which is **"0000"**, then press ENTER button to confirm.

RATING
This function limits the playback of DVDs based on the Motion Picture Association of America's rating assigned to each movie. Parent's can specify the ratings that require a password to view. The rating listed from low to high, KID SAFE is the lowest and ADULT is the highest.
Note:
- When changing the RATING PASSWORD, the current password must be unlocked.



DEFAULT
The SYSTEM SETUP can be restored to default by pressing the ENTER button on this selection.

LANGUAGE SETUP

OSD (On-Screen Display) language, Audio language, subtitle language and menu language can be changed for your preference.

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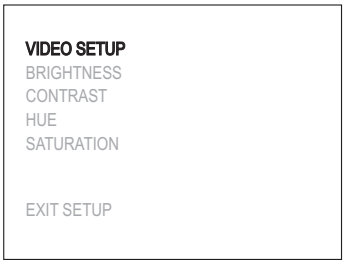
DISC FUNCTION SETUP

VIDEO SETUP



BRIGHTNESS
Use CURSOR buttons to move/scroll and adjust the brightness in 12 levels.

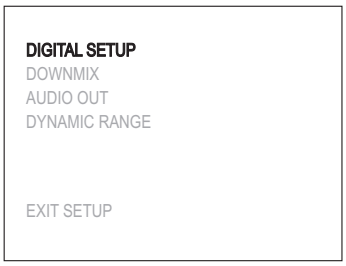
CONTRAST
Use CURSOR buttons to move/scroll and adjust the contrast in 12 levels.

HUE
Use CURSOR buttons to move/scroll and adjust the HUE in (+6 to -6) 12 levels.

SATURATION
Use CURSOR buttons to move/scroll and adjust the saturation in 12 levels.

DIGITAL SETUP

DOWN MIX



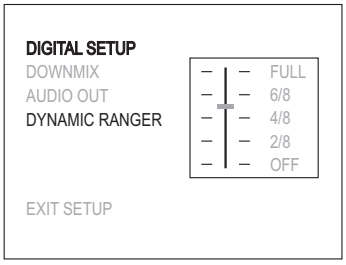
LT/RT
Choosing this setting when the original movie was recorded in ProLogic Dolby Digital format will pronounce a movie theater sound effect.

STEREO (default)

AUDIO OUT
SPDIF/RAW (default)
Choose this setting, if your DVD player is connected to a power amplifer with a coaxial cable or an optical cable. When playing a disc recorded with Dolby Digital, DTS and MPEG audio formats, the corresponding digital signals will be output from the Coaxial Output jack. This player's digital output jacks are designed for a connection to a Dolby Digital, DTS or MPEG receiver or decoder.

SPDIF/PCM (Sony-Philips Digital Interface Format /Pulse code modulation)
Choose this setting, if your DVD player is connected to a 2-channel digital stereo amplifier. When playing a disc recorded with Dolby Digital and MPEG audio formats, the audio signal will be modulated into a 2-channel PCM signal and it will be output from the Coaxial Output jack or Optical Output jack.

DOLBY DIGITAL SETUP



When LINE OUT is selected, choose this setting to adjust the line out ratio and get different effects. If adjusting to FULL, the audio signal peak volume will be minimum, while adjusting to OFF, value will be maximized.

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ENGLISH

DISC FUNCTION

BEFORE PLAYING

- Please check “Playable Discs” on page E5 to make sure the disc is playable.
- Make sure the Singing Machine is connected to the components properly and the power of the Singing Machine is on.

BASIC PLAYBACK

PLAY A DISC (DVD) (CDG) (CD)

1. Press POWER button on the front panel to turn on the Singing Machine
2. Press the TV/AV/DVD Function Selector button on the machine or TV/DVD button on the remote control until DVD mode screen displays on your Singing Machine screen .
3. Press the OPEN/CLOSE button on the system or on the remote control to open the disc door.
4. Place a disc into the compartment and press the OPEN/CLOSE button again to close the disc door. Insure the disc is positioned properly (displaying the label side up).
5. Press the PLAY/PAUSE button on the front of the system or on the remote control to begin playing a disc.

Note:

1. For some discs, playback will start from the first chapter or track of the disc automatically.
2. When you playback the DVD which a title menu is recorded, it may appear on the screen. In this case, use CURSOR buttons on the remote control to select your choice.
3. For MP3 discs, playback will begin from the first mp3 file.
4. For JPG image discs, a slide show will begin automatically or if the play button is pressed.

CAUTION: Keep your fingers away from the disc tray as it is closing. Neglecting to do so may cause serious personal injury.

STOP/ RESUME (DVD) (CD)

1. Press the STOP button on the front of the system or on the remote control to stop the disc from playing. A blue screen with The Singing Machine logo will appear on the screen.
2. Press PLAY/PAUSE button to resume playback. The playback starts from where the STOP button is pressed.

Note:

1. Pressing the STOP button again after the disc stops playing will clear the location index stored in memory.
   DVD - Playback starts from the beginning of the current title.
   CDG/CD - Playback starts from the beginning of the disc.
2. For MP3 and JPG discs, folder view will be displayed if the STOP button is pressed.

PLAY/ PAUSE (DVD) (CDG) (CD)

1. Press the PLAY/PAUSE button during playback.
2. Press the PLAY/PAUSE button again to resume playback.

Note:

1. This function is available for all discs.
2. The sound is muted during pause mode.

REMOVE DISC (DVD) (CDG) (CD)

1. Press STOP button twice to confirm disc is not spinning.
2. Press OPEN/CLOSE button to access the disc.
3. Remove the disc from the compartment.
4. Press the OPEN/CLOSE button again to close the compartment.

PREVIOUS/ NEXT (DVD) (CDG) (CD)

1. For a DVD disc: Pressing the PREVIOUS (PREV) ⏮ or the NEXT ⏭ button will enable the next or previous chapter to display.
2. For CDG/CD/MP3/JPG discs: Pressing PREV ⏮ or NEXT ⏭ button will enable you to go to the previous or next track/file on the disc.

Note:

1. When the PRE ⏮ button is pressed once during normal playback of a DVD, the chapter being played will be played from the beginning.
2. Input the index of the chapter or track by pressing the NUMBER buttons during the normal playback, the playback will go to that chapter or track directly. But -/-- button will not work in this function mode.

SCAN FORWARD/ REVERSE (DVD) (CD)

1. During normal playback of the DVD, CD or MP3, press SCAN buttons ◀◀ - ▶▶ on the remote control to fast reverse and fast forward.
2. Each time you press either button it will change the playback speed. The following sequence will appear on screen.

   FWD: 2X ⇨ 4X ⇨ 8X ⇨ 20X ⇨ Normal Play (It will not display on screen)

   REV: 2X ⇨ 4X ⇨ 8X ⇨ 20X ⇨ Normal Play (It will not display on screen)

   The rate and direction of playback is indicated on the display.
3. Press PLAY button to return to normal playback.

Note:

1. This function is not available for CDGs or JPG discs.
2. The Singing Machine omits the subtitle and mutes sound during fast forward or fast reverse mode during DVD and mp3 playback.
3. The resultant speed of the fast forward or fast reverse may differ depending on the disc.

SLOW MOTION (DVD)

The SLOW button when pressed repeatedly adjusts the speed to the desired slow motion. The following sequence will be shown on screen.

1/2 ⇨ 1/3 ⇨ 1/4 ⇨ 1/5 ⇨ 1/6 ⇨ 1/7 ⇨ Normal Play

STEP (DVD)

Repeatedly pressing or holding down the STEP button will allow the picture to advance forward frame by frame. To return to normal play, press the play button.

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DISC FUNCTION

OTHER FUNCTIONS

REPEAT
This function is activated to repeat a particular chapter/title/track. The following sequence will display on the screen when pressing this button repeatedly.

For DVD disc: CHAPTER ⇨TITLE ⇨Repeat ALL ⇨ OFF

For CDG and CD discs: Repeat 1 ⇨ ALL ⇨OFF

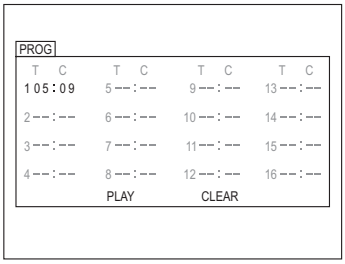
For MP3 and JPG disc: Repeat 1 ⇨ Repeat Directory (DIR) ⇨ Repeat All ⇨ OFF

REPEAT A-B DVD CD
This function allows a desired portion of the playback to repeat. The following is the sequence, which will appear on the screen if the A-B button is pressed repeatedly on your remote control.

1. Press A-B button on the remote control to select the desired chapter in the "Repeat Playback" mode in order for the DVD to start the chapter from the beginning.
2. Press the A-B button again at the end of the desired chapter, in the "Repeat Playback"mode. "**A-B**" will appear on the screen and the desired "Repeat Playback" will start automatically and repeatedly until the A-B button is pressed again.

Note:
1. This function works for DVD, MP3 and CD except CDG and JPG discs.
2. For CD and MP3, the start and end point of the A-B selection must be within the same track.

PROGRAM DVD CDG CD
The user can control the playback order as desired by pressing PROGRAM button on the remote control. This unit is equipped with 16 programs. After pressing the PROGRAM button on the remote control, the screen will display as follows:

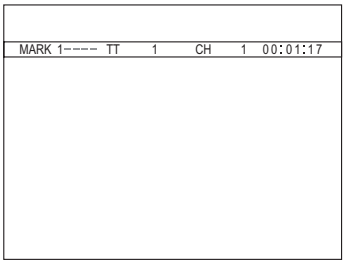


Use the CURSOR buttons to select the first entry. Press number buttons and +10 button to enter desired title (T) and chapter(C) you wanted to see.

You can start by selecting "Play" on the program interface. Press PROGRAM button again or CLEAR button on the remote control if you want to cancel the program. And then choose "Play" to continue normal playing.

Note:
- The programming interface of the program function of CDG and CD are similar to the DVD. The main difference is the input parameter of DVD is the index of title/chapter, the input parameter of CD is the index of track.

MARKING DVD



Movies can be marked with tag (5 tags) by pressing MARK button on the remote control. The marked tag can call back the saved scene by CURSOR button selection and pressing PLAY button. The marked tag can be removed by pressing CLEAR button on the remote control.

DVD MENU DVD
DVD menu can be display when pressing the DVD MENU button on the remote control during DVD playback.

Note:
1. DVD menu has to be prerecorded in the DVD by disc manufacturer.
2. During VCD playbace, this button will function as PBC (Playback Control) button.

ZOOM DVD
This unit has six different zoom modes. Pressing the ZOOM button on the remote control repeatedly will display as shown below on your TV screen:

2X⇨ 3X ⇨4X ⇨ 1/2 X ⇨1/3X ⇨1/4X ⇨ Normal Play

Note:
- The enlarged picture can be moved by pressing CURSOR buttons on the remote control. The position of the picture will move and be shown on another display on the TV screen.

ANGLES DVD
Some DVD discs contain scenes which have been shot simultaneously from a number of different angles. Therefore, the same scenes can be viewed from different angles by pressing ANGLE button on the remote control repeatedly. (The recorded angles differ from disc to disc.)

Note:
- If the DVD disc is recorded with only one angle, this function will not be available.

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DISC FUNCTION

OTHER FUNCTIONS

SUBTITLE DVD

Pressing SUBTITLE button repeatedly allows different subtitle languages to display on screen one by one.

Note:

- This function only works for DVD.
- For some discs, subtitle can not be removed.
- Different discs differ in the language of subtitles.

AUDIO DVD CDG CD

Pressing the AUDIO button repeatedly will display different audio modes and will appear on the screen

DISPLAY DVD CDG CD

Press the DISPLAY button on the remote during DVD playback, different information will display on the screen by each successive pressing of DISPLAY button.

Current title, chapter and playing time will show as a bar on the screen by pressing DISPLAY button once.

When the DISPLAY button is pressed again, information regarding subtitle, audio channel and angle appear on your screen.

The next mode that appears is title, chapter and playing time in the particular chapter being viewed.

The next mode that appears is title, chapter and total playing time in the particular title being viewed.

The last mode that appears is title, chapter and total playing time remained in the particular title being viewed.

The Display mode will turn off if the DISPLAY button is pressed during the last mode.

Note:

- This function is not available for JPG image CD and MP3 disc.
- For CDG and CD discs, the display sequence is different from the above.

SEARCH DVD CDG CD

User can access a specific location or a specific track by keying in the target time or the chapter/track number.

1. Press the SEARCH button to enter search mode.
2. Input the target time/chapter/track by keying number buttons (0-9) and press the ENTER button. The player will jump to the target location immediately.

KARAOKE FUNCTION

In order to perform karaoke function, the Singing Machine must be in disc function mode and disc has to be loaded.

MIC VOL/ ECHO/ KEY (+/-) DVD CDG CD

Press Karaoke Function button on the front of the Singing Machine or on the remote control can let the user to adjust the MIC VOL/ECHO/KEY effects being produced from the Singing Machine. Pressing the button in the middle for the first time will display “MIC VOL” on the top left corner of the screen

Pressing Karaoke Function +/ - button on the front of the Singing Machine or on the remote control will adjust the microphone volume of the system audio output.

Pressing the Karaoke Function button again will change the display to “ECHO” on the top left corner of the screen. Adjust the echo effect by pressing Karaoke Function +/ - buttons.

Pressing the Karaoke Function button again will display “KEY” on the top left corner of the screen. Adjust different ranges by pressing +/ - buttons.

AUTO VOICE CONTROL CDG

Pressing the AVC button on the remote control while playing a CDG track with both music and vocals will remove the lead singer's voice from the track being played while using a microphone.

KARAOKEVISION DVD CDG CD

During the disc function mode, KARAOKEVISION can be switched on for real-time performance appear on the Singing Machine’s screen.

1. Lift up the camera up to an upright position.
2. Adjust the camera position by moving it slightly up or down to the desired angel.
3. Press the CAMERA button on the remote control to switch on the CAMERA mode. The your image will show on the screen.
4. To focus the camera display, the camera lens must be adjusted by rotating until a clear image appears on screen.

Note:

- Independent CAMERA video output can be connected through the CAMERA VIDEO OUT jack that located at the rear panel of the Singing Machine.

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CARE AND MAINTENANCE

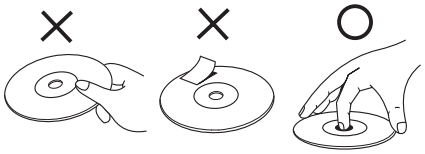
POWER SWITCH
After using the unit, turn off the power by pressing the POWER button.

CLEANING THE UNIT
To clean the exterior of the unit, simply wipe with a soft clean cloth moistened with plain lukewarm water.

CLEANING THE CD LASER LENS
For the Best Results: Use a CD-lens cleaning disc according to the cleaning disc manufacturer instructions.
If a lens cleaning disc is not available, use a clean, soft, dry cotton cloth to gently wipe the small, glass, fish-eye laser lens located in the CD players.

To prevent fire or shock hazard, disconnect your stereo system from the AC power plug when cleaning.

COMPACT DISC
Handling Disc
Although the music tracks on the disc are covered with a protective layer, it is still advisable to treat the disc carefully. Ensure that you always pick up discs by the edge, and put them back in their holders immediately after use.



CLEANING DISC
Cleaning will not normally be necessary. However, should fingerprints, dust or dirt appear, you can wipe them off with a soft, lint-free cloth. Wipe the disc in a straight line from center to edge. You can moisten the disc first with ordinary tap water if necessary.

NOTE: Do not use detergent or abrasive cleaning agents as they can damage the disc.

CD PLAYER
The player mechanism is fitted with self-lubricating bearings and must not be oiled or greased.

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TROUBLE SHOOTING GUIDE

If you have followed the instructions and are having difficulty operating the unit, locate the PROBLEM in the left column below. Check the corresponding POSSIBLE CAUSE column to locate and remedy the problem.

PROBLEM	POSSIBLE CAUSE	SOLUTION
No power when the unit is on.	No power plug connection at the AC outlet.	Insert the power plug into the AC outlet.
No sound.	Volume control is set to minimum.	Turn up the volume.
	Muting button is pressed.	Press Muting button again.
No sound from TV or PA.	TV or PA system is set to minimum.	Turn up the volume on the TV or PA system.
	TV or PA system is powered off.	Power the TV or PA system on.
	The wrong function is selected.	Select the correct function.
	The vocal or audio setting is not correct.	Select the correct vocal or audio setting.
	Patch cords are not connected securely.	Ensure white and red patch cords are securely inserted into both The Singing Machine and the TV/PA system.
	Video cable is not connected to the Video input jack.	Connect Video cable to Video input jack with the Audio connections.
Disc function mode cannot work normally.	Disc is inserted upside down.	Insert disc correctly.
	Disc is dirty.	Wipe clean with soft cloth.
	Disc is scratched.	Use a new disc.
	Disc is warped.	Use a new disc.
	A nonstandard disc is inserted.	Only use discs bearing standard logo as described on page E5.
	Moisture has formed inside the disc compartment.	Wait about 20 to 30 minutes to let it dry out.
	Singing Machine needs to be reset.	Disconnect the machine from power source for 30 seconds then reconnect.
No sound - when audio is connected to a home stereo.	Source selection on your home stereo is not set properly.	Select AUX IN as the source for your home stereo.
	Improper connection to stereo system or PA.	Follow instructions on page E15 for “Connecting to an audio system”.
	Patch cords are not connected securely.	Ensure white and red patch cords are securely inserted into both The Singing Machine and the home stereo system.
No sound - If audio is going through VCR.	Source selection on VCR is not correct.	Follow instructions on page E12 for “Connecting to a video system”.
	Patch cords are not connected securely.	Ensure white and red patch cords are securely inserted into both The Singing Machine and the VCR.
While playing CDG and singing with the microphone, the music or vocal cuts out.	AVC is activated unintentionally.	Deactivate the AVC.
	Playing music only track.	Play track that includes music and vocal.
	Audio channel is set to LEFT.	Press AUDIO button on the remote control to restore STEREO setting.

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TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
No song lyrics appear on the screen when connected to another video component.	Video cable is not connected properly to the video component.	Connect the video cable (Yellow) to the Singing Machine's VIDEO OUT and to the video component VIDEO IN.
	Source selector on video component is not set to VIDEO.	Using your video component remote control to select VIDEO input or select the proper VIDEO input on the TV itself. (Refer to page E12 under Common ways to configure your TV or VCR)
	The another video component does not have video line input.	Connect from VIDEO OUT of the system to the VIDEO IN of your VCR or connect to an RF Modulator and then to the video component input. Refer to "Connecting to a video system" on page E12. Check the disc to be sure it is compatible.
The player does not respond to the remote control.	Remote control is not pointing to the Remote Sensor directly.	Aim the remote control directly at the Remote Sensor on the front of the player.
	The remote control is too far from the Singing Machine.	Reduce the distance between each other.
	Batteries are depleted.	Replace the batteries in the remote control.
	Batteries incorrectly inserted.	Re-insert the batteries with their polarities (+/- signs) as indicated inside the battery compartment.
No image displays on the system when attempting to use the camera.	The Singing Machine is not in the Disc function mode.	Press TV/AV/DVD button or TV/DVD button to switch to DVD mode first. Then press CAMERA button to camera mode.
	The camera lens is down.	Lift up a camera lens and remove the lens cap.
	The Singing Machine is not in camera mode.	Press camera button on the remote control to set Singing Machine to camera mode.
	Lens cap is on the camera.	Remove lens cap before using camera.
Image is blurry.	Camera has not warmed up.	Wait a minute for the camera to warm up.
	Camera lens is dirty	Clean the camera lens.
	Camera lens is out of focus	Adjust the lens of the camera by slightly rotating either left or right until the display is clear. Do not overturn the lens.
Song lyrics display a double image while playing.	Operating play-pause-play-pause continuously on a song selection will cause double image.	Return to the beginning of the song selection.

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SPECIFICATIONS

AUDIO SECTION: SPEAKER OUTPUT POWER (MAX.) OUTPUT IMPEDANCE	 5 WATTS + 5 WATTS (RMS) 8 OHMS
DVD PLAYER SECTION: FREQUENCY RESPONSE SIGNAL - TO - NOISE RATIO D - A CONVERSION NUMBER OF PROGRAMS DIGITAL OUTPUT	 20 Hz - 20kHz ± 3dB 80 dB (A-WTD) 16 bits 16 STEPS RANDOM ACCESS PROGRAMMING SPDIF COAXIAL
TV SECTION: SYSTEM LO VHF CHANNEL HI VHF CHANNEL UHF CHANNEL CATV TUNER TYPE	 NTSC 2 - 6 7 - 13 14 - 69 A1 - A5, A8, A - W, W+1 - W+84 181 CHANNELS, FS TUNING
MICROPHONE	-74dB 600OHMS IMPEDANCE WITH ∅6.3mm DYNAMIC MICROPHONE
POWER SECTION	AC 110-120V~60Hz
DIMENSIONS (H x W x D)	22.5 x 15.6 x 15.0 Inches / 57.1 x 39.5 x 38 cm
WEIGHT	36.4 lbs / 16.5 kgs
ACCESSORIES	1. REMOTE CONTROL 2. AV (RCA) CABLE 3. DYNAMIC MICROPHONE 4. PRE-RECORDED KARAOKE CD+G DISC 5. ANTENNA AND ADAPTOR

Specifications are typical, individual units might vary. They are subject to continuous improvement without notice and without incurring any obligation.

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THE SINGING MACHINE KARAOKE GLOSSARY OF TERMS

In addition to all of the terminology associated with consumer electronics products, a few additional terms are used almost exclusively in karaoke. These terms are meant to familiarize you with the world of Karaoke. The features listed below ***may not*** necessarily pertain to the particular model Singing Machine that you have. The following are some brief explanations of karaoke terms:

Echo:
Echo adds depth and resonance to a singer's voice without affecting the music. This echo is produced by creating minor controlled feedback in the singer's voice.

Multiplex:
Our multiplex recordings contain 2 copies of the same song. One version is a stereo recording of the song without the lead singer. The second version is recorded with the music and background vocals on the left channel and the lead singer recorded on the right channel. This 'split track' recording allows you to control the volume of the lead singer by adjusting the balance control. You can sing a duet with the lead singer or use the lead singer as a guide as you learn the song, gradually fading them out with the balance control until you are able to sing the song on your own.

Auto Voice Control (A.V.C.):
When the AVC function is activated, the vocals on a multiplex recordings are eliminated as soon as the singer begins singing into the microphone. When the singer stops singing, the vocals on the multiplex recording are automatically re-activated. This useful function is used primarily during practice sessions while a singer is learning a song. Please note that the AVC function only works with multiplex recording and not with standard audio recordings.

Key Controller:
Key Controller changes the key of the CD/CDG, MP3, DVD, Cassette music to adjust to the singer's voice.

CDG:
This is an acronym for Compact Disc plus Graphics. You will also see variations CD+G, and CD+Graphics. This is a regular audio CD with information stored on a data track simultaneous to music. In laymen's terms, CDG has a video output for simple graphics (not full motion video). In the case of karaoke, the graphics function is used to store song lyrics, and display the lyrics in synch with music. In most cases, CDG software displays lyrics which change color as they are to be sung. A regular television is all that is required to display CDG lyrics.

Standard audio discs and cassette tapes will not display lyrics on your TV. Audio CDs do not contain the software necessary to display lyrics.

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